

## NVT Prototype Design Notes

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### NVT DEMONSTRATION

- Test/demonstration network for NVT prototype will be a subset of HISD's network. (Decision made at TIM #5.)

### NVT LAB ENVIRONMENT

- Set up network for NVT lab in W3/2607
- Upgraded Lab to Visual Studio 6.0
- Visual Basic 6.0
- Purchase order placed for VisualWorks 3.0 ?

### ANSSR

- After considerable effort, resolved Smalltalk/ANSSR issues;
  - ANSSR was written in ObjectWorks Smalltalk version 4.1
    - Encountered challenges in integrating this tool under Visual Smalltalk due to Smalltalk compatibility issues
    - Solved most compatibility issues by using VisualWorks Smalltalk, a readily available successor to ObjectWorks
  - ANSSR has now been successfully built under VisualWorks 3.0
- Testing is ongoing, but outlook for use of ANSSR under VisualWorks Smalltalk 3.0 is promising
- Output from ANSSR is a Vulnerabilities Report (ascii text file) which contains
  - Summary information
  - For each component in the network, a list of vulnerabilities and a # (rating or ranking?)

### ISS INTERNET SCANNER

- Could be used as one way to resolve incomplete data problem. Used to ping network node to discover information about the node.

### RAM

- The CRADA with NSA through which we would obtain a copy of RAM is still unsigned, tied up in NSA legal.
- The delay in obtaining a copy of RAM from NSA is impacting the schedule for the development of the NVT prototype. By the end of December, we should have completed the acquisition and initial study of each vulnerability assessment tool, as well as have designed our initial prototype. Without a copy of RAM, we cannot complete an initial study of integration issues involved with the tool, or complete the initial design.
- Therefore, if the CRADA is not completed soon, we will need to resort to Plan B, which is to use the Harris STAT vulnerability DB.

### NVT PROTOTYPE DESIGN

- OpenView D.01 (which is currently installed in NVT Lab, purchased in February and received in March 1998) supports Visual Basic 3.0. OpenView D.03 (most recent release) supports Visual Basic 4.0 (and 3.0). But we have Visual Basic 6.0, and thus have a compatibility problem. Because of this, we will not be able to use some HP

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Visual \_\_\_ tools, which would have made it easier to integrate with Visual Studio 6.0.